

Message Text

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ORIGIN OES-09

INFO OCT-01 EUR-12 ISO-00 NSF-02 SS-15 L-03 ACDA-12
CIAE-00 INR-10 IO-14 NSAE-00 NSC-05 EB-08 NRC-07
SOE-02 DODE-00 DOE-15 SP-02 CEQ-01 COME-00 /118 R

DRAFTED BY OES/APT/SEP:DMCRAMER:KMP
APPROVED BY OES/APT/SEP:RGMORRIS
EUR/SOV:RWINDSOR
NSF/INT:APARDEE

-----082675 111157Z /46

R 102109Z JUL 78
FM SECSTATE WASHDC
TO AMEMBASSY MOSCOW

UNCLAS STATE 173435

E.O. 11652: N/A

TAGS: TGEN, US, UR

SUBJECT: US-USSR S&T AGREEMENT: SIXTH JCM: JWG REPORT ON
ELECTROMETALLURGY AND MATERIALS (01.03)

1. EMBASSY REQUESTED DELIVER TO ANTONOV AND AYKAZYAN
SOONEST FOLLOWING LETTER AND PARTIAL REVISION OF JWG
REPORT WHICH WAS ORIGINALLY GIVEN TO US SIDE BY SOVIETS
AT JWG MEETING IN WASHINGTON. US SIDE AGREED TO REVIEW
AND PREPARE SUMMARY AND RECOMMENDATION SECTION WHICH
HAD BEEN LEFT OUT IN SOVIET VERSION.

2. 01.03 JUNE 27, 1978

DR. S. P. ANTONOV
STATE COMMITTEE FOR SCIENCE AND TECHNOLOGY, U.S.S.R.
COUNCIL OF MINISTERS
MOSCOW, U.S.S.R.
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DEAR DR. ANTONOV:

I HAVE REWORKED THE REPORT OF THE JOINT SOVIET-AMERICAN
WORKING GROUP ON ELECTROMETALLURGY AND MATERIALS, AND
AM SENDING YOU A COPY OF THE REPORT WHICH WILL BE SUB-
MITTED TO THE JOINT US-USSR COMMISSION DURING THE WEEK

OF JULY 16.

NO CHANGES OF SUBSTANCE WERE NECESSARY SINCE THE REPORT COVERED ALL PERTINENT AREAS. I ADDED A BRIEF PARAGRAPH IN THE SECTION ON SOLID STATE JOINING.

THE TRANSLATION INTO ENGLISH HAD BEEN DONE RATHER POORLY OF THIS REPORT, THEREFORE MY EFFORTS WERE PRIMARILY TO MAKE THE REPORT MORE READABLE AND PERHAPS MORE ACCURATE IN A FEW PLACES. PLEASE EXAMINE THE REPORT AND COMPARE IT WITH YOUR ORIGINAL RUSSIAN VERSION. IF THERE ARE NO CHANGES OF IMPORTANCE (I DO NOT ANTICIPATE ANY) WOULD YOU PLEASE APPROVE BY SIGNING.

AGAIN MY DEEPEST REGRETS THAT I WILL NOT SEE YOU IN JULY.

ALL BEST WISHES,
NICHOLAS J. GRANT

3. PLEASE EXPLAIN TO SOVIETS THAT FULL TEXT HAS NOT BEEN SENT TELEGRAPHICALLY WITH ANTONOV LETTER BECAUSE OF LENGTH, BUT WILL BE HAND CARRIED BY USDEL. INSTEAD, ONLY THE NEW SECTION ON SOLID STATE JOINING OF MATERIALS AND THE SUMMARY AND CONCLUSIONS ARE PROVIDED BELOW.

4. SOLID STATE JOINING OF MATERIALS:
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COOPERATION WAS REALIZED ON TWO AREAS, "DIFFUSION WELDING" AND "COMPOSITE MATERIALS".

STUDIES WERE CONCLUDED ON A SURVEY OF METHODS OF JOINING IN SOLID BONDING OF HOMOGENOUS AND HETEROGENOUS METALS AND ALLOYS; KINETICS OF THE PROCESSES OF HETERODIFFUSION, AND FORMATION OF INTERMEDIATE PHASES IN THE PROCESS OF SOLID STATE JOINING OF HETEROGENOUS METALS AND ALLOYS WERE STUDIED. RESEARCH ON THE ROLE OF RESIDUAL STRESSES ON THE MECHANICAL PROPERTIES OF COMPOSITE MATERIALS WAS UNDERTAKEN.

THE WIDENING OF THE PROGRAM IN THE AREA OF COMPOSITE MATERIALS WAS AGREED UPON; HOWEVER, DUE TO THE RESIGNATION OF THE COORDINATOR ON THE US SIDE, FINAL DECISIONS ON THE FUTURE RESEARCH WAS POSTPONED UNTIL A NEW COORDINATOR IS SELECTED.

IV. SUMMARY: THE JOINT RESEARCH, MUTUAL VISITS, EXCHANGE OF SCIENTISTS, AND SYMPOSIA ALLOWED MUTUALLY ADVANTAGEOUS RESULTS TO BE REALIZED. SUCCESSFUL SOLU-

TIONS OF A NUMBER OF THE VERY IMPORTANT SCIENTIFIC

PROBLEMS WERE ACHIEVED; MUTUAL UNDERSTANDING BETWEEN SOVIET AND AMERICAN SCIENTISTS WAS FURTHERED. THE REALIZATION OF THE PROJECTED PROGRAM FOR 1978-1980 SHOULD MAKE IT POSSIBLE TO WIDEN JOINT COOPERATION AND ATTRACT NEW RESEARCH ORGANIZATIONS AND FIRMS, AND TO UNDERTAKE NEW PROGRAMS.

V. RECOMMENDATIONS: IT IS RECOMMENDED THAT THE JOINT COMMISSION NOTE WITH SATISFACTION THE PROGRESS ACHIEVED BY THE WORKING GROUP AS WELL AS THE SUCCESSFUL COMPLETION OF SEVERAL TASKS. THE ENTHUSIASM DEVOTED BY BOTH SIDES TO THE JOINT COOPERATION IS REFLECTED IN THE NEW AND UNCLASSIFIED

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BROADER NAME OF THE WORKING GROUP.

SPECIFICALLY, IT IS RECOMMENDED THAT THE JOINT COMMISSION APPROVE:

- 1. CONSOLIDATING THE WELDING AREAS,
- 2. INCLUDING THE AREAS OF (A) FRACTURE MECHANISMS IN CONSTRUCTIONAL MATERIALS AND (B) HOT WORKING OF METALS, AND
- 3. INITIATING LONG TERM RESEARCH VISITS BY US AND SOVIET SCIENTISTS TO EACH OTHER'S LABORATORIES AND INSTITUTIONS. VANCE

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Message Attributes

Automatic Decaptioning: X
Capture Date: 01 jan 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: AGREEMENT, AGREEMENTS, REPORTS
Control Number: n/a
Copy: SINGLE
Draft Date: 10 jul 1978
Decaption Date: 01 jan 1960
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01 jan 1960
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1978STATE173435
Document Source: CORE
Document Unique ID: 00
Drafter: DMCRAMER:KMP
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Expiration:
Film Number: D780283-0362
Format: TEL
From: STATE
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1978/newtext/t19780778/aaaacnnp.tel
Line Count: 147
Litigation Code IDs:
Litigation Codes:
Litigation History:
Locator: TEXT ON-LINE, ON MICROFILM
Message ID: fe656078-c288-dd11-92da-001cc4696bcc
Office: ORIGIN OES
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 3
Previous Channel Indicators: n/a
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: n/a
Retention: 0
Review Action: RELEASED, APPROVED
Review Content Flags:
Review Date: 29 mar 2005
Review Event:
Review Exemptions: n/a
Review Media Identifier:
Review Release Date: N/A
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
SAS ID: 2062427
Secure: OPEN
Status: NATIVE
Subject: US-USSR S&T AGREEMENT: SIXTH JCM: JWG REPORT ON ELECTROMETALLURGY AND MATERIALS (01.03)
TAGS: TGEN, US, UR
To: MOSCOW
Type: TE
vdkgvwkey: odb://SAS/SAS.dbo.SAS_Docs/fe656078-c288-dd11-92da-001cc4696bcc
Review Markings:
Sheryl P. Walter
Declassified/Released
US Department of State
EO Systematic Review
20 Mar 2014
Markings: Sheryl P. Walter Declassified/Released US Department of State EO Systematic Review 20 Mar 2014